

COP Deviation Report
SAN JUAN 28-7 UNIT #100N

RCUD JAN 9 '12
OIL CONS. DIV.

Operator CONOCOPHILLIPS COMPANY	Legal WellName SAN JUAN 28-7 UNIT #100N	API / UWI 3003930880	County RIO ARRIBA	State DISTRICT	Province NEW MEXICO
Surface Legal Location 030-027N-007W-K	N/S Dist (ft) 1,365 00	N/S Ref FSL	E/W Dist (ft) 2,310 00	E/W Ref FWL	

Survey Data

Date	MD (ftKB)	Incl (°)	Method	Survey Company
10/3/2011	168 00	0.75	Inc-Drop	MO-TE DRILLING INC.
10/3/2011	355.00	0.75	Inc-Drop	MO-TE DRILLING INC.
11/21/2011	389 00	0.36	IncAzi-MWD	Scientific Drilling
11/21/2011	450 00	0.46	IncAzi-MWD	Scientific Drilling
11/21/2011	512 00	0.54	IncAzi-MWD	Scientific Drilling
11/21/2011	573 00	0.50	IncAzi-MWD	Scientific Drilling
11/21/2011	634 00	0.55	IncAzi-MWD	Scientific Drilling
11/21/2011	696 00	0.71	IncAzi-MWD	Scientific Drilling
11/21/2011	757.00	1.75	IncAzi-MWD	Scientific Drilling
11/21/2011	819.00	2.85	IncAzi-MWD	Scientific Drilling
11/21/2011	881 00	4.43	IncAzi-MWD	Scientific Drilling
11/21/2011	942.00	6.18	IncAzi-MWD	Scientific Drilling
11/21/2011	1,007.00	7.88	IncAzi-MWD	Scientific Drilling
11/21/2011	1,071.00	9.35	IncAzi-MWD	Scientific Drilling
11/21/2011	1,134 00	10.83	IncAzi-MWD	Scientific Drilling
11/21/2011	1,198.00	12.25	IncAzi-MWD	Scientific Drilling
11/21/2011	1,261.00	13.98	IncAzi-MWD	Scientific Drilling
11/21/2011	1,325 00	15.18	IncAzi-MWD	Scientific Drilling
11/21/2011	1,388 00	16.65	IncAzi-MWD	Scientific Drilling
11/21/2011	1,452 00	16.59	IncAzi-MWD	Scientific Drilling
11/21/2011	1,515 00	17.69	IncAzi-MWD	Scientific Drilling
11/21/2011	1,579.00	18.09	IncAzi-MWD	Scientific Drilling
11/21/2011	1,642 00	18.61	IncAzi-MWD	Scientific Drilling
11/21/2011	1,706.00	18.34	IncAzi-MWD	Scientific Drilling
11/21/2011	1,769.00	18.30	IncAzi-MWD	Scientific Drilling
11/21/2011	1,833 00	17.86	IncAzi-MWD	Scientific Drilling
11/21/2011	1,896 00	17.44	IncAzi-MWD	Scientific Drilling
11/21/2011	1,960 00	17.07	IncAzi-MWD	Scientific Drilling
11/21/2011	2,024 00	16.54	IncAzi-MWD	Scientific Drilling
11/21/2011	2,087 00	16.91	IncAzi-MWD	Scientific Drilling
11/21/2011	2,151.00	17.28	IncAzi-MWD	Scientific Drilling
11/21/2011	2,214.00	17.38	IncAzi-MWD	Scientific Drilling
11/21/2011	2,278.00	17.30	IncAzi-MWD	Scientific Drilling
11/21/2011	2,341.00	17.55	IncAzi-MWD	Scientific Drilling
11/21/2011	2,405.00	17.14	IncAzi-MWD	Scientific Drilling
11/21/2011	2,469 00	16.99	IncAzi-MWD	Scientific Drilling

I, the undersigned, certify that I acting in my capacity as _____ for ConocoPhillips Company, am authorized by said Company to make this report; and that said report was prepared under my supervision and directions, and that the facts stated herein are true to the best of my knowledge and belief.

Subscribed and sworn to me this _____

Notary Public in and for San Juan County, New Mexico

My Commission expires _____



COP Deviation Report
SAN JUAN 28-7 UNIT #100N

Survey Data

Date	MD (ftKB)	Incl (°)	Method	Survey Company
11/21/2011	2,532.00	16.98	IncAzi-MWD	Scientific Drilling
11/22/2011	2,596.00	16.42	IncAzi-MWD	Scientific Drilling
11/22/2011	2,659.00	15.69	IncAzi-MWD	Scientific Drilling
11/22/2011	2,723.00	14.68	IncAzi-MWD	Scientific Drilling
11/22/2011	2,787.00	14.16	IncAzi-MWD	Scientific Drilling
11/22/2011	2,850.00	15.29	IncAzi-MWD	Scientific Drilling
11/22/2011	2,914.00	15.10	IncAzi-MWD	Scientific Drilling
11/22/2011	2,977.00	15.91	IncAzi-MWD	Scientific Drilling
11/22/2011	3,041.00	17.30	IncAzi-MWD	Scientific Drilling
11/22/2011	3,104.00	16.67	IncAzi-MWD	Scientific Drilling
11/22/2011	3,168.00	17.13	IncAzi-MWD	Scientific Drilling
11/22/2011	3,231.00	16.94	IncAzi-MWD	Scientific Drilling
11/22/2011	3,295.00	16.96	IncAzi-MWD	Scientific Drilling
11/22/2011	3,358.00	15.89	IncAzi-MWD	Scientific Drilling
11/22/2011	3,422.00	14.72	IncAzi-MWD	Scientific Drilling
11/22/2011	3,485.00	14.61	IncAzi-MWD	Scientific Drilling
11/22/2011	3,549.00	15.07	IncAzi-MWD	Scientific Drilling
11/22/2011	3,612.00	15.43	IncAzi-MWD	Scientific Drilling
11/22/2011	3,676.00	15.51	IncAzi-MWD	Scientific Drilling
11/22/2011	3,740.00	15.45	IncAzi-MWD	Scientific Drilling
11/22/2011	3,803.00	15.31	IncAzi-MWD	Scientific Drilling
11/22/2011	3,867.00	14.85	IncAzi-MWD	Scientific Drilling
11/22/2011	3,930.00	14.99	IncAzi-MWD	Scientific Drilling
11/22/2011	3,994.00	15.84	IncAzi-MWD	Scientific Drilling
11/22/2011	4,057.00	15.23	IncAzi-MWD	Scientific Drilling
11/23/2011	4,121.00	15.60	IncAzi-MWD	Scientific Drilling
11/23/2011	4,184.00	15.58	IncAzi-MWD	Scientific Drilling
11/23/2011	4,248.00	14.93	IncAzi-MWD	Scientific Drilling
11/23/2011	4,312.00	14.61	IncAzi-MWD	Scientific Drilling
11/23/2011	4,375.00	14.85	IncAzi-MWD	Scientific Drilling
11/23/2011	4,439.00	15.32	IncAzi-MWD	Scientific Drilling
11/23/2011	4,502.00	13.03	IncAzi-MWD	Scientific Drilling
11/23/2011	4,566.00	11.26	IncAzi-MWD	Scientific Drilling
11/23/2011	4,630.00	10.09	IncAzi-MWD	Scientific Drilling
11/23/2011	4,693.00	8.38	IncAzi-MWD	Scientific Drilling
11/23/2011	4,757.00	6.45	IncAzi-MWD	Scientific Drilling
11/23/2011	4,820.00	4.15	IncAzi-MWD	Scientific Drilling
11/23/2011	4,872.00	3.12	IncAzi-MWD	Scientific Drilling
11/23/2011	4,928.00	2.01	Projection	Scientific Drilling

I, the undersigned, certify that I acting in my capacity as _____ for ConocoPhillips Company, am authorized by said Company to make this report; and that said report was prepared under my supervision and directions, and that the facts stated herein are true to the best of my knowledge and belief.

Subscribed and sworn to me this _____

Notary Public in and for San Juan County, New Mexico

My Commission expires _____

Survey Data

Date	MD (ftKB)	Incl. (°)	Method	Survey Company
11/27/2011	5,333.00	1.00	Inc-MWD	Aztec Well Servicing Co Inc
11/27/2011	5,833.00	0.50	Inc-MWD	Aztec Well Servicing Co Inc
11/27/2011	6,300.00	0.50	Inc-MWD	Aztec Well Servicing Co Inc
11/28/2011	6,800.00	1.00	Inc-MWD	Aztec Well Servicing Co Inc
11/28/2011	7,300.00	0.50	Inc-MWD	Aztec Well Servicing Co Inc
12/7/2011	7,585.00	1.25	Inc-WL	Phoenix Services LLC
11/28/2011	7,604.00	1.00	Inc-MWD	Aztec Well Servicing Co Inc

I, the undersigned, certify that I acting in my capacity as Drilling Engineer for ConocoPhillips Company, am authorized by said Company to make this report; and that said report was prepared under my supervision and directions, and that the facts stated herein are true to the best of my knowledge and belief.



Subscribed and sworn to me this 11/9/12



Notary Public in and for San Juan County, New Mexico

My Commission expires 2/28/14